Owner's Manual

MOON Series

PSX 5.3

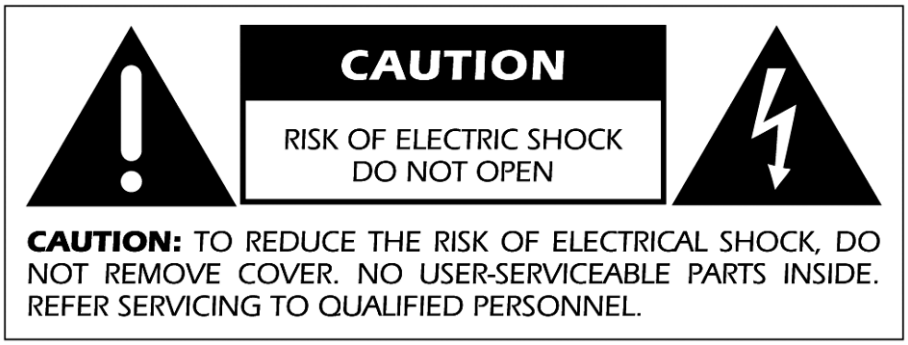
Power Supply

M O O N

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or another apparatus that produces heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for safety. If the provided plug does not fit into the outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments and accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power cord or plug has been damaged; liquid has been spilled or objects have fallen into the apparatus; or the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. No naked flame sources, such as candles, should be placed on the apparatus.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

Important Safety Instructions (cont'd)

The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community

Please read all instructions and precautions carefully and completely before operating your Simaudio MOON PSX 5.3 Power Supply.

1. **ALWAYS** disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component.
2. The MOON PSX 5.3 must be terminated with a three-conductor AC mains power cord which includes an earth ground connection. To prevent shock hazard, all three connections must **ALWAYS** be used. Connect the MOON PSX 5.3 only to an AC source of the proper voltage; Both the shipping box and rear panel serial number label will indicate the correct voltage. Use of any other voltage will likely damage the unit and void the warranty.
3. AC extension cords are **NOT** recommended for use with this product.
4. **NEVER** use flammable or combustible chemicals for cleaning audio components.
5. **NEVER** operate the MOON PSX 5.3 with any covers removed. There are no user-serviceable parts inside. An open unit, especially if it is still connected to an AC source, presents a potentially lethal shock hazard. Refer all questions to authorized service personnel only.
6. **NEVER** wet the inside of the MOON PSX 5.3 with any liquid. If a liquid substance does enter your MOON PSX 5.3, immediately disconnect it from the AC mains and take it to your MOON dealer for a complete check-up.
7. **NEVER** spill or pour liquids directly onto the MOON PSX 5.3.
8. **NEVER** block air flow through ventilation slots or heatsinks.
9. **NEVER** bypass any fuse.
10. **NEVER** replace any fuse with a value or type other than those specified.
11. **NEVER** attempt to repair the MOON PSX 5.3. If a problem occurs contact your MOON dealer.
12. **NEVER** expose the MOON PSX 5.3 to extremely high or low temperatures.
13. **NEVER** operate the MOON PSX 5.3 in an explosive atmosphere.
14. **ALWAYS** keep electrical equipment out of reach of children.
15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

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Congratulations!

Thank you for selecting the **MOON PSX 5.3 Power Supply** as a part of your music system. This component has been designed to offer state-of-the-art high-end performance in an elegant package, while retaining all the sonic hallmarks on which Simaudio has made its reputation. We have spared no effort to ensure that it is provides a significant improvement to the sonic performance of your **MOON LP5.3 Phono Preamplifier**. We have been building high-performance audio equipment for almost 30 years, and the know-how gained through our cumulative experience is an important reason why **MOON** audio components are so musically satisfying.

The performance of your **PSX 5.3** will continue to improve during the first 200 hours of use. This is the result of a "break-in" period required for the numerous high quality electronic parts used throughout this Power Supply.

We hope you enjoy using the **MOON PSX 5.3 Power Supply** as much as the pride we have taken in creating this fine audio product. We understand the power and emotion of music and build our products with the goal of faithfully capturing these elusive qualities.

The information contained in this manual is subject to change without notice. The most current version of this manual is available on our official website at http://www.simaudio.com/manuals.htm

Unpacking

The **MOON PSX 5.3 Power Supply** should be removed from its box with care.

The following accessories should be included inside the box with your Power Supply:

- ✓ *DC 4-pin XLR cable*
- ✓ *This owner's manual*
- ✓ *Warranty and product registration information (USA and Canada only)*

As soon as the Power Supply is safely removed from its box and placed down, perform a thorough physical inspection and report any physical damage to your dealer immediately. We suggest that you keep all of the original packaging, storing it in a safe, dry place in the event that you're required to transport this product. The customized packaging is specially designed to protect the **MOON PSX 5.3 Power Supply** from potential damage that may occur during shipping.

Please write the serial number of your new Simaudio **MOON PSX 5.3** in the space provided below for future reference.

Serial No.: _____

Introduction

Your **MOON PSX 5.3 Power Supply** incorporates many significant design features to enhance the "world class"performance of your **MOON LP 5.3 Phono Preamplifier**. This is an abbreviated list of the more important features:

High quality **toroidal transformer**.

4 stages of DC voltage regulation.

Total capacitance of **35,200uF.**

Dual choke inductance (2x 200mH).

Special **"pi-type" filter** after initial voltage rectification stage to reduce AC transmission noise.

Dual action voltage regulation system to further lower noise.

DC signal noise is **150dB lower** within LP5.3 circuitry.

Reduces the LP5.3's signal-to-noise ratio by over 3dB, regardless of its selected internal gain setting.

Pure copper circuit board tracings with extremely low impedance characteristics.

Accurate matching of the finest high quality electronic components.

Designed to be **powered up at all times** for optimal performance.

Low operating temperature for a longer than normal life expectancy.

Installation & Placement

The **MOON PSX 5.3** requires reasonable ventilation to maintain an optimum and consistent operating temperature. As a result, it should be placed in a location with empty space around it for proper heat dissipation. As well, it should be placed on a solid level surface. You should avoid placing it near a heat source or inside a closed cabinet that is well ventilated as this could compromise this component's performance and reliability. *You should never place another component directly on top of, or underneath this Power Supply.*

The **PSX 5.3** uses a toroidal transformers in its power supply; even though it is well shielded, you should place this power supply at a minimum distance of 18 inches from source components sensitive to EMI, such as your **LP 5.3,** turntables, and CD Players.

LP 5.3 Internal Settings

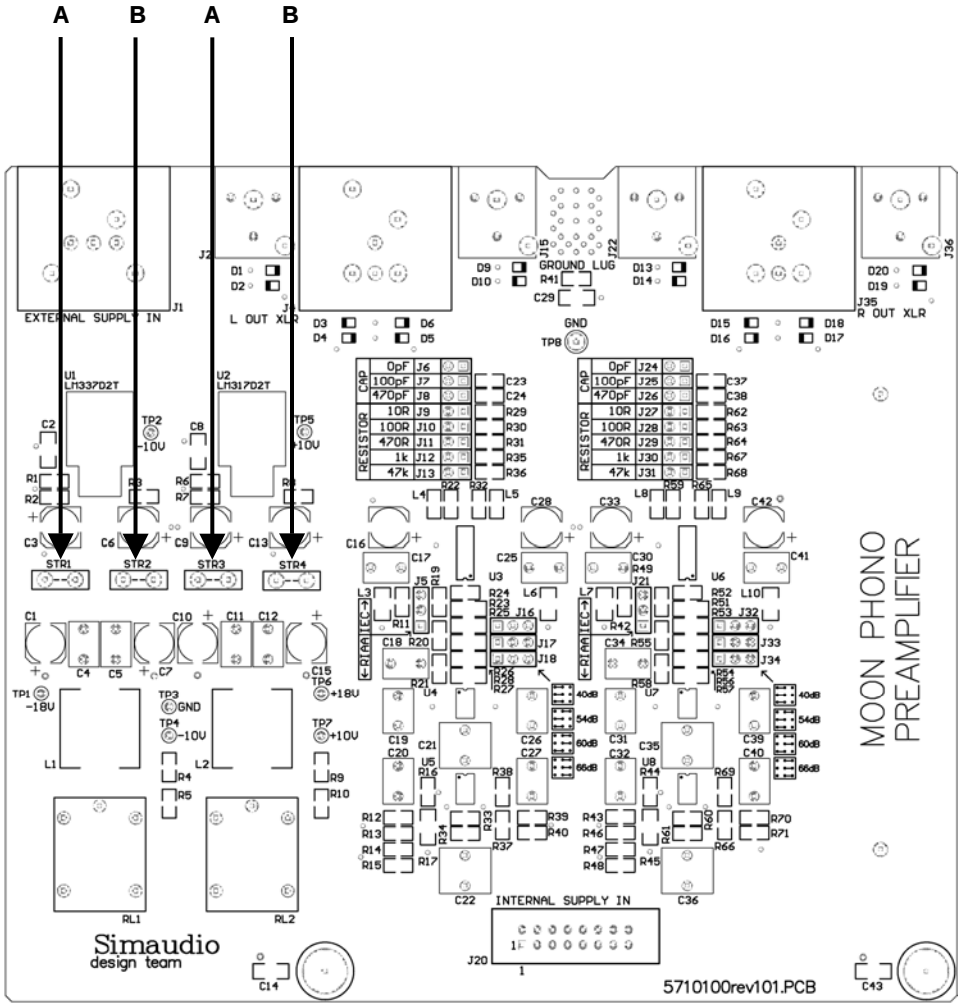

Figure 1: MOON LP5.3 Circuit Board layout

Prior to connecting your **MOON LP 5.3 Phono Preamplifier** to the **MOON PSX 5.3 Power Supply**, you **must** move two (2) internal jumpers inside your **MOON LP 5.3**. Please refer to page 8 of your **MOON LP5.3** owner's manual for detailed instructions on how to remove the chassis cover. Referring to the above diagram of the LP5.3, you will see an array of four (4) jumper sockets labeled STR1, STR2, STR3 and STR4. The factory default position for the 2 jumpers is in sockets STR2 and STR4 (positions B in figure 1). To properly operate the **MOON LP 5.3** in conjunction with the **MOON PSX 5.3**, you will need to move these 2 jumpers into sockets STR1 and STR3 (positions A in figure 1). Failure to make these adjustments may cause damage that is not covered by warranty.

Rear Panel Connections

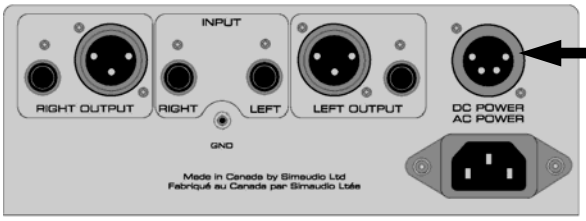

Figure 2: MOON LP5.3 Rear panel

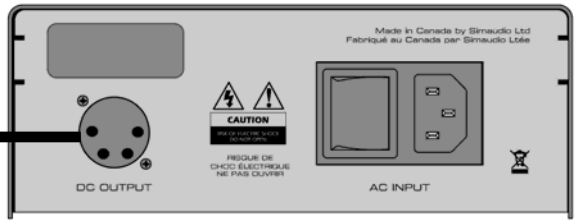

Figure 3: MOON PSX 5.3 Rear panel

The rear panel of the **MOON PSX 5.3** will look similar to Figure 3 (above right). There is a 4-pin female XLR connector, labeled "DC output", located on the left side. On the right side are the the power "main switch" and IEC receptacle, labeled "AC Input".

To connect the **MOON LP 5.3 Phono Preamplifier** to the **MOON PSX 5.3 Power Supply**, follow these steps:

1. Disconnect the AC power cord from your **MOON LP 5.3**.

2. Use the supplied DC 4-pin XLR cable to connect the "DC Output" on the **MOON PSX 5.3** to the "DC Power" input on the **MOON LP 5.3**. The male end (with 4 pins) of the cable connects to the **MOON PSX 5.3** and the female end (with 4 holes) connects to the **MOON LP 5.3**. Do not use an aftermarket or custom 4-pin XLR cable as the supplied cable is specifically designed for this application.

3. Connect the **MOON LP5.3**'s AC power cable to the IEC receptacle, located on the **PSX5.3**'s rear panel. Alternatively, if you wish, you may use a dedicated high-performance AC cable designed for for preamplifiers. Ensure that the AC wall outlet you use has a functioning ground. For the best sonic performance, it is preferable that you plug your **PSX 5.3** directly into a dedicated AC outlet and avoid using an extension cord. If you have the time and willingness, consider installing a superior quality AC wall outlet such as a hospital grade Hubbell.

4. In order to obtain the maximum performance from your audio system, we strongly recommend that the detachable power cord not come into physical contact with any of the interconnect cables from your audio system. In the event that this can't be avoided, you should ensure that any cables coming into contact with each other are crossed at ninety degree angle to minimize the contact area.

Operating the PSX 5.3

Since your **MOON LP 5.3 Phono Preamplifier** is not equipped with its own on/off power switch, powering it on and off is accomplished via the **MOON PSX 5.3 Power Supply's** on/off switch, located on the rear panel.

We recommend that you leave your **MOON PSX 5.3 Power Supply** powered up at all times to maintain optimal sonic performance. In the event that you plan to be away from your home for a few days, powering off the **MOON PSX 5.3** may not be a bad idea. Once fully "broken-in", please keep in mind that both your **MOON PSX 5.3** and **MOON LP 5.3** will require several hours of playing time before they reach peak performance again.

Powering up your MOON PSX5.3 for the first time

Prior to making the AC connection for the first time, make sure that every cable is properly connected to avoid any problems. Once the **PSX 5.3** is connected to an AC source you may power it up by flicking the main rocker switch labeled "POWER" to the '1' (on) position. The blue LEDs on the front panel of both the **MOON PSX 5.3** and **MOON LP 5.3** will illuminate at the same time.

On and Off Sequence

To avoid having any annoying noises (ie. "thumps" and "pops") emanate from your speakers when powering your **PSX 5.3** on or off, you should

1) Always power up your **PSX 5.3** before powering up your preamplifier and/or integrated amplifier**.**

2) Always power down your **PSX 5.3** after powering down your preamplifier and/or integrated amplifier.

When you power down the **MOON PSX 5.3**, the blue LEDs on both units will remain illuminated for up to 10 seconds; this is normal and is the result of the large amount of storage capacitance found in the **MOON PSX 5.3 Power Supply**.

Specifications

MOON PSX 5.3:

Transformer	25VA
Total Capacitance	35,200µF
Total Inductance	400mH
Power Consumption	9 Watts
AC Power Requirements	120V or 240V, 60Hz or 50Hz
Shipping Weight	8 lbs / 3.5 Kgs
Dimensions (W x H x D, inches)	8 x 3.25 x 11

MOON LP 5.3:

Signal-to-Noise Ratio (full scale @ 40dB gain)	114dBr
Signal-to-Noise Ratio (full scale @ 66dB gain)	92dBr

Note: All other MOON LP5.3 specifications remain unchanged when using it in conjunction with the MOON PSX5.3.

Fuse Replacement: For the 120V version use a 0.2A slow blow (5 x 20mm size).
For the 230V version use a 0.1A slow blow (5 x 20mm size).